

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of: Yukihiisa TAKEUCHI, Tsutomu NANATAKI, Iwao  
OHWADA and Takayoshi AKAO

Filed: Concurrently herewith

For: ELECTRON EMITTER

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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*Janet M. Stevens*  
Janet M. Stevens

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. In accordance with the Notice dated July 11, 2003 on the PTO website, we are not enclosing copies of any of the U.S. references listed on Form PTO-1449.

In compliance with the concise explanation requirement under 37 CFR § 1.98(a)(3) for foreign language documents, Applicants submit the following:

1. Attached is a partial English translation of Japanese Laid-Open Patent Publication No. 59-208587 as authored by applicants' Japanese representative.
2. Japanese Patent No. 3,160,213 (Ref. AN) corresponds to U.S. Patent No. 5,874,802 (Ref. AA).
3. Japanese Laid-Open Patent Publication No. 2000-310970 (Ref. AP) corresponds to EP 0 953 958 A2 (Ref. AO).
4. International Patent Publication No. WO 02/052600 (Ref. AQ) corresponds to U.S. Patent Application Publication No. 2002/0153827 (Ref. AB).

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. See 37 C.F.R. 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that these references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Respectfully submitted,

December 8, 2003

Date



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Form PTO-1449  US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	
				Filing Date	
				First Named Inventor	
				Art Unit	
				Examiner Name	
				Confirmation No.	
Sheet	1	of	2	Attorney Docket No.	789_118 CIP

### U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
	<b>AA</b>	5,874,802	02-23-1999	Choi et al.				
	<b>AB</b>	2002/0153827	10-24-2002	Takeuchi et al.				

### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
	<b>AC</b>	1-311533 A	12-15-1989	JP				✓
	<b>AD</b>	7-147131 A	06-06-1995	JP			JPO Machine Translation	✓
	<b>AE</b>	2000-285801 A	10-13-2000	JP			JPO Machine Translation	✓
	<b>AF</b>	46-20944	06-12-1971	JP			✓	
	<b>AG</b>	44-26125	11-04-1969	JP			✓	
	<b>AH</b>	11-185600	07-09-1999	JP			JPO Machine Translation	✓
	<b>AI</b>	10-27539 A	01-27-1998	JP			JPO Machine Translation	✓
	<b>AJ</b>	11-288249 A	10-19-1999	JP			JPO Machine Translation	✓
	<b>AK</b>	63-150837 A	06-23-1988	JP				✓
	<b>AL</b>	09-090882 A	04-04-1997	JP			JPO Machine Translation	✓
	<b>AM</b>	59-208587	11-26-1984	JP			Partial	
	<b>AN</b>	3160213 B2	02-16-2001	JP			JPO Machine Translation	✓
	<b>AO</b>	0 953 958 A2	11-03-1999	EP				
	<b>AP</b>	2000-310970 A	11-07-2000	JP			JPO Machine Translation	✓
	<b>AQ</b>	02/052600 A1	07-04-2002	WO				

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Sheet	2	of	2	<b>Attorney Docket No.</b>	
				789_118 CIP	

**OTHER DOCUMENTS**  
(Including Author, Title, Date, Pertinent Pages etc.)

	<b>AR</b>	"Pulsed Electron Source Using a Ferroelectric Cathode," Tokyo Institute of Technology, Vol. 68, No. 5, 7 January 1999, pp. 546-550.
	<b>AS</b>	Puchkarev, Victor F. and Mesyats, Gennady A., "On the Mechanism of Emission from the Ferroelectric Ceramic Cathode," Journal of Applied Physics, Vol. 78, No. 9, 1 November 1995, pp. 5633-5637.
	<b>AT</b>	Riege, H., "Electron Emission from Ferroelectrics - a Review," Nucl. Instr. and Meth. A340, 1994, pp. 80-89.
	<b>AU</b>	Masatoshi Miyake et al., "Electron Emission from Ferroelectric Cathodes Excited by Pulsed Voltage," Tokyo Institute of Technology, Vol. 119, No. 5, 1999 pp. 622-627.

<b>Examiner:</b>		<b>Date Considered:</b>	
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.